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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
WASHINGTON 25, D. C.

SCIENTIFIC ADVISORY BOARD AD HOC COMMITTEE ON
SPACE RADIATION EFFECTS
Aerospace Corporation
El Segundo, California
29-30 January 1963

TENTATIVE AGENDA

Tuesday, 29 January

0900	Opening remarks by Chairman	Dr. W. H. Radford
0910	Overview of Air Force Space Radiation Problems and Research Programs	L/C A. C. Trakowski Hq USAF
1010	Break	
1030	Space Radiation Environment (Including discussion of areas of uncertainty and experimental program needs)	L/C Gene De Giacomo AFCRL/GRD
1130	Artificial and Natural Radiation Belts	Dr. W. N. Hess NASA-GODDARD
1215	Lunch	
1315	Radiation Effects	Dr. Warren Keller NASA
1400	Summary of available information on Space Radiation Effects on Materials	Mr. Donald J. Hamman Batelle Memorial Institute
1445	Break	
1500	Executive Session	
1700	Adjourn	

Wednesday, 30 January

0900	Opening remarks by Chairman	Dr. W. H. Radford
0910	Practical Limits of Radiation Density in Artificial Belts - Injection efficiency (Summary of SSD/DAG Study of Artificial Belt Effects)	Maj Jack Welch USAF/RAND

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Wednesday, 30 January (Continued)

1010	Break	
1030	Influence of Radiation Effects on the Design of Telestar	Dr. Walter Brown Bell Telephone Laboratories
1115	Executive Session	
1215	Lunch	
1315	Executive Session	

APPROVED BY:

Julius H. Massey Jr

JULIUS H. MASSEY, JR.
Major, USAF
Asst Secretary
USAF Scientific Advisory Board

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Enclosure (A)

AD HOC COMMITTEE ON SPACE RADIATION EFFECTS

The Committee proposes to review the effects of natural and artificial particle and electromagnetic radiation, particularly trapped and solar radiation, on the materials, electronic and optical components, and the performance of space vehicle systems. Propagation effects will be considered.

The review will not cover biomedical effects or nuclear blast effects. The radiation effects of nuclear power and propulsion systems will not be covered initially, but may be included later.

The review will emphasize present state of knowledge in the following areas:

(1) Space radiation environment and need for additional data.

(2) Effects on materials, components and system performance.

(3) Design criteria for protection from the space radiation environment.

13 December 1962

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